



# PHL7112

## Barcode laser scanner



CF Type II I/O

Serial connector  
Serial cradle

## Related products

**PHL7214**

- Windows CE
- Barcode laser scanner
- Bluetooth, W-LAN (WiFi), GSM/GPRS, serial connector
- IP 54, Full keypad

**PHL8112**

- Windows CE
- Barcode laser scanner
- Bluetooth, W-LAN (WiFi), serial connector
- IP 65

**H15**

- Windows CE
- Barcode laser scanner
- Bluetooth, W-LAN (WiFi)
- IP 54



## Operation

- CPU: Intel® PXA255 32-bit RISC 400MHz
- O/S: Windows CE 5.0
- Software: Wordpad, Internet Explorer, Inbox, Active Sync, Messenger, Opticon scanner application, Accessories, Upgradeable via integrated SD
- RTC: Supports year, month, day, hour, minute, second (leap year supported)

## Memory

- FlashROM: 64 MB
- RAM: 128 MB SDRAM
- Expansion: Integrated SD, CF Type II

## Display

- Type: Graphic Transflective TFT with touch panel, 256K color with adjustable backlight
- Size: 3.5", 240 x 320 pixels
- Mode: Portrait

## Operating indicators

- Visual: 2 LEDs (triple-color charging indication & dual-color scanning indication)
- Non-visual: Buzzer

## Operating keys

- Entry options: 29 backlit keys total, 16-key (alpha)numeric/control keypad, 4-way navigation keys, 1 function key, 1 custom key, control keys, 1 power key, 3 scan keys

## Communication

- RS232: Baudrate 150 bps - 115.2 kbps, serial cable connector
- USB: Ver. 1.1, full speed, serial cable connector client, optional host
- Bluetooth: Ver. 1.2, SPP, DUN, OPP, HID (only keyboard support), output power class 2, range 5-10 m
- W-LAN: 802.11b/g, CCK, TKIP, WEP, WPA, WPA2, EAP, LEAP, PEAP, AES, PSK (pre-shared, static, dynamic), Cisco CCX compatible Ver. 4
- Audio: Speaker/microphone (mono), headset connector (stereo)
- Extension: User accessible CF Type II I/O

## Power

- Rechargeable battery: Lithium-Ion 3.7V 3000mAh
- High-capacity battery: Optional 3.7V 4000mAh
- Backup battery: 1 integrated rechargeable backup battery
- Charging method: Enclosed power supply, separate cradle IRU7000, separate car charging adapter
- Battery charging time: Ca. 4 or 5.5 hours when charging through power supply, ca. 5 or 7 hours when charging by cradle Standard battery (resp. Standard or High-capacity battery)

## Barcode scanner Optics

- Light source: 650 nm visible laser diode
- Scan method: Vibrating mirror
- Scan rate: 100 scans/sec
- Reading pitch angle: -35 to 0°, 0 to +35°
- Reading skew angle: -50 to -8°, +8 to +50°
- Reading tilt angle: -20° to 0°, 0 to +20°
- Curvature: R>15 (EAN8), R>20 (EAN13)
- Min. PCS value: 0.45
- Depth of field: At PCS 0.9, Code 39  
70 - 650 mm / 2.76 - 25.59 in (1.00 mm / 39 mil),  
50 - 420 mm / 1.97 - 16.54 in (0.5 mm / 20 mil),  
50 - 260 mm / 1.97 - 10.24 in (0.25 mm / 10 mil),  
50 - 150 mm / 1.97 - 5.91 in (0.15 mm / 6 mil),  
60 - 120 mm / 2.36 - 4.72 in (0.127 / 5 mil)

## Supported Symbologies

- Barcode (1D): JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, ISBN, Industrial 2of5, Interleaved 2of5, Matrix 2of5, MSI/Plessey, Telepen
- Postal code: Chinese Post, Korean Postal Authority code

## Durability

- Temperature in operation: -10 to 50 °C / 14 to 122 °F
- Temperature in storage: -20 to 70 °C / -4 to 158 °F
- Humidity in operation: 5 - 95% (non-condensing)
- Ambient light immunity: White 4,000 lx max, Fluorescent 4,000 lx max, Direct sun 80,000 lx max
- Drop test: 1.5 m / 5 ft drop onto concrete surface
- Protection rate: IP 54

## Physical

- Dimensions (w x h x d):  
91.3/78 x 192.5 x 60.6/42.2 mm  
3.59/3.07 x 7.58 x 2.39/1.66 in
- Weight body: Ca. 600 g / 1 lb 5 oz (incl. battery)
- Case: Black

## Regulatory & Safety

- Product compliance: CE, FCC, cUL, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II

## Enclosed items

- Power supply 100-240V/0.6A, 50/60 Hz, 5V/2.6A  
+ Power cord
- Standard battery Lithium-Ion 3.7V 3000mAh
- USB client cable
- Hand strap
- Stylus
- Ear microphone (stereo)
- CF support guide

## Sold separately

- IRU7000 Cradle: Serial communication, charging
- IRU7004 spare battery charger
- High-capacity battery Lithium-Ion 3.7V 4000mAh
- GSM ear microphone (mono)
- RS232 serial cable
- USB host cable
- Car charging adapter
- Holster
- Pistol grip